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An examination is made of the problem involved in creating anisotropic media in a smooth metallic waveguide containing isotropic dielectric disks periodically distributed. Separate consideration is given to the systems of equations, derived from Maxwell equations describing the propagation of axially symmetrical electromagnetic waves, which characterize the propagation of E and H waves. Equations are derived for the effective values of the dielectric constants of an anisotropic dielectric, equivalent to disks, that completely fill the waveguide.

(Physics, TT, v. 5, no. 12)

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1. Electromagnetic waves--
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 2. Waveguides--Mathematical
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For abstract see Technical Translations 5: 134, 1961.

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DESCRIPTORS: *Metallic crystals, *Adsorption,
Single crystals, Sputtering, Secondary emission, Elec-
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(Physics--Solid State, TT, v. 11, no. 1)

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with like positive or negative ions of various elements.
The energy was varied between 100 and 1200 ev. The
secondary electron emission of nondegassed targets
caused by negative ions is considerably more intense
than that caused by positive ions. The coefficients
gamma of secondary emission of degassed, but not
(Physics--Electronics, IT, v. 5, no. 11) (over)

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